Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A heat exchanger, comprising: ~~in particular a coolant refrigerator or condenser for motor vehicles, with~~

a soldered heat exchanger network comprising ~~consisting of~~ flat tubes ~~(2, 3)~~ and [[of]] corrugated ribs configured so that [[(1),]] a liquid and/or gaseous medium can ~~being capable of~~ flow through the flat tubes ~~(2, 3)~~ and air can ~~being capable of~~ flow around the corrugated ribs [[(2)]], and

a corrugated rib [[(1)]] having at least two ~~in each case~~ two rib surfaces ~~(4, 5)~~ which are arranged essentially parallel to one another and ~~which~~ are connected ~~in each case~~ by ~~means of~~ an arcuate piece joined ~~(6) soldered~~ to a flat tube ~~(2, 3)~~,

wherein ~~characterized in that~~ the arcuate piece [[(6)]] has a lower curvature in a middle portion [[(6a)]] than in a first outer portion [[(6b)]] and in a second outer portion [[(6c)]].

2. (Currently Amended) The heat exchanger as claim in claim 1, wherein ~~characterized in that~~ the rib surfaces include ~~(4, 5) are equipped with~~ gills [[(7)]].

3. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the arcuate piece [[(6)]] has in the middle portion [[(6a)]] a radius of curvature R1 which is greater than a rib height RH of the corrugated rib [[(1)]].

4. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the arcuate piece [[(6)]] has in the first outer portion [[(6b)]] a radius of curvature R2 which is lower than half a rib height RH of the corrugated rib [[(1)]].

5. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the arcuate piece [[(6)]] has in the second outer portion [[(6c)]] a radius of curvature R3 which is greater than or equal to a radius of curvature R2 in the first outer portion [[(6b)]].

6. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the arcuate piece [[(6)]] has in the second outer portion [[(6c)]] a radius of curvature R3 which is lower than a rib height RH of the corrugated rib [[(1)]].

7. (Currently Amended) The heat exchanger as claimed in claim 2, wherein ~~characterized in that~~ the gills ~~(7, 7a, 7c)~~ have a gill depth LP in a range of 0.5 to 1.5 mm and a gill angle α in a [[the]] range of 20° to 35°.

8. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the corrugated rib [[(1)]] has a rib division FP in a [[the]] range of 1 to 3 mm.

9. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the corrugated rib [[(1)]] has a rib depth RT in a [[the]] range of 10 to 70 mm~~, preferably 12 to 20 mm or 40 to 64 mm~~.

10. (Currently Amended) The heat exchanger as claimed in claim 2, wherein a ~~characterized in that the~~ ratio of gill depth LP to rib division FP is in a range of 0.385 to 0.825.

11. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~characterized in that~~ the corrugated rib [[(1)]] has a rib height RH in a range of 3 to 15 mm~~, preferably 6 to 10 mm~~.

12. (New) The heat exchanger as claim in claim 1, wherein the arcuate piece is soldered to the flat tube.

13. (New) The heat exchanger as claim in claim 9, wherein the rib depth RT is in a range of 12 to 20 mm.

14. (New) The heat exchanger as claim in claim 9, wherein the rib depth RT is in a range of 40 to 64 mm.

15. (New) The heat exchanger as claim in claim 11, wherein the rib height RH is in a range of 6 to 10 mm.

16. (New) The heat exchanger as claim in claim 1, wherein the heat exchanger is a coolant refrigerator or condenser for motor vehicles.